

# CERTIFICATE OF CALIBRATION

Date Of Issue  
16th September 2011

Certificate Number  
160911/N11



Certificate Issued By:



Electronic Temperature Instruments Ltd  
Easting Close, Worthing  
West Sussex BN14 8HQ England  
Telephone +44 01903 202151  
Facsimile +44 01903 202445  
email: sales@etiitd.co.uk  
Website: www.etiitd.co.uk

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|                    |           |
|--------------------|-----------|
| Approved Signatory | Signature |
| J. Carswell        |           |
| D. Carter          |           |

Customer Name: DJB LABCARE  
Address: 20 HOWARD WAY  
CROMWELL BUSINESS CENTRE  
INTERCHANGE PARK  
NEWPORT PAGNELL  
MK16 9QS

Order Number: 18000

Ref Number: 290/28827

Date Received: 15th September 2011

Date Calibrated: 16th September 2011

Ambient Temperature: 22 °C ± 2 °C      Ambient Humidity: < 60 %rh

Temperature Scale: International Temperature Scale of 1990

Inst Description: OMEGA HH804U INDICATOR

Sensor Type: 1000mm FLEXIBLE WIRE PT100 AIR PROBE (connected to T1 input only)

Inst Serial Number: 110138      Sensor Serial Number: 110138/T1

Calibrated Range/Scale: 0 °C to + 100 °C / 0.1 °C RESOLUTION

Procedure: The Instrument was stabilised at ambient temperature, then calibrated by comparison with two traceable references in stirred liquid baths. Immersion depth 110mm

Results: Test Temperature °C      Instrument Reading °C

|        |      |
|--------|------|
| 0.00   | 0.0  |
| 20.00  | 20.0 |
| 40.00  | 39.9 |
| 70.00  | 69.8 |
| 100.00 | 99.7 |

Uncertainty of Measurement ± 0.04 °C + Instrument Resolution.

The sensor was placed inside a waterproof sheath during calibration.      End of Report

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%.

The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Results indicate performance of instrument at time of measurement, with no warranty as to specification, repeatability or long term stability.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurements to recognised national standards, and to units of measurement realised at the National Physical Laboratory and other recognised national standards laboratories, including the National Institute of Standards and Technology (NIST).

This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

# CERTIFICATE OF CALIBRATION

Date Of Issue  
16th September 2011

Certificate Number  
160911/N12



0601

Certificate Issued By:



Electronic Temperature Instruments Ltd  
Easting Close, Worthing  
West Sussex BN14 8HQ England  
Telephone +44 01903 202151  
Facsimile +44 01903 202445  
email: sales@etilt.co.uk  
Website: www.etilt.co.uk

Page 1 of 1 pages

Approved Signatory

Signature

J. Carswell

D. Carter

Customer Name: DJB LABCARE  
Address: 20 HOWARD WAY  
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MK16 9QS

Order Number: 18000

Ref Number: 290/28827

Date Received: 15th September 2011

Date Calibrated: 16th September 2011

Ambient Temperature: 22 °C ± 2 °C      Ambient Humidity: < 60 %rh

Temperature Scale: International Temperature Scale of 1990

Inst Description: OMEGA HH804U INDICATOR

Sensor Type: 1000mm FLEXIBLE WIRE PT100 AIR PROBE (connected to T2 input only)

Inst Serial Number: 110138

Sensor Serial Number: 110138/T2

Calibrated Range/Scale: 0 °C to + 100 °C / 0.1 °C RESOLUTION

Procedure: The Instrument was stabilised at ambient temperature, then calibrated by comparison with two traceable references in stirred liquid baths. Immersion depth 110mm

| Results: | Test Temperature °C | Instrument Reading °C |
|----------|---------------------|-----------------------|
|          | 0.00                | -0.1                  |
|          | 20.00               | 19.9                  |
|          | 40.00               | 39.8                  |
|          | 70.00               | 69.7                  |
|          | 100.00              | 99.6                  |

Uncertainty of Measurement ± 0.04 °C + Instrument Resolution.

The sensor was placed inside a waterproof sheath during calibration.

End of Report

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%.

The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Results indicate performance of instrument at time of measurement, with no warranty as to specification, repeatability or long term stability.

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